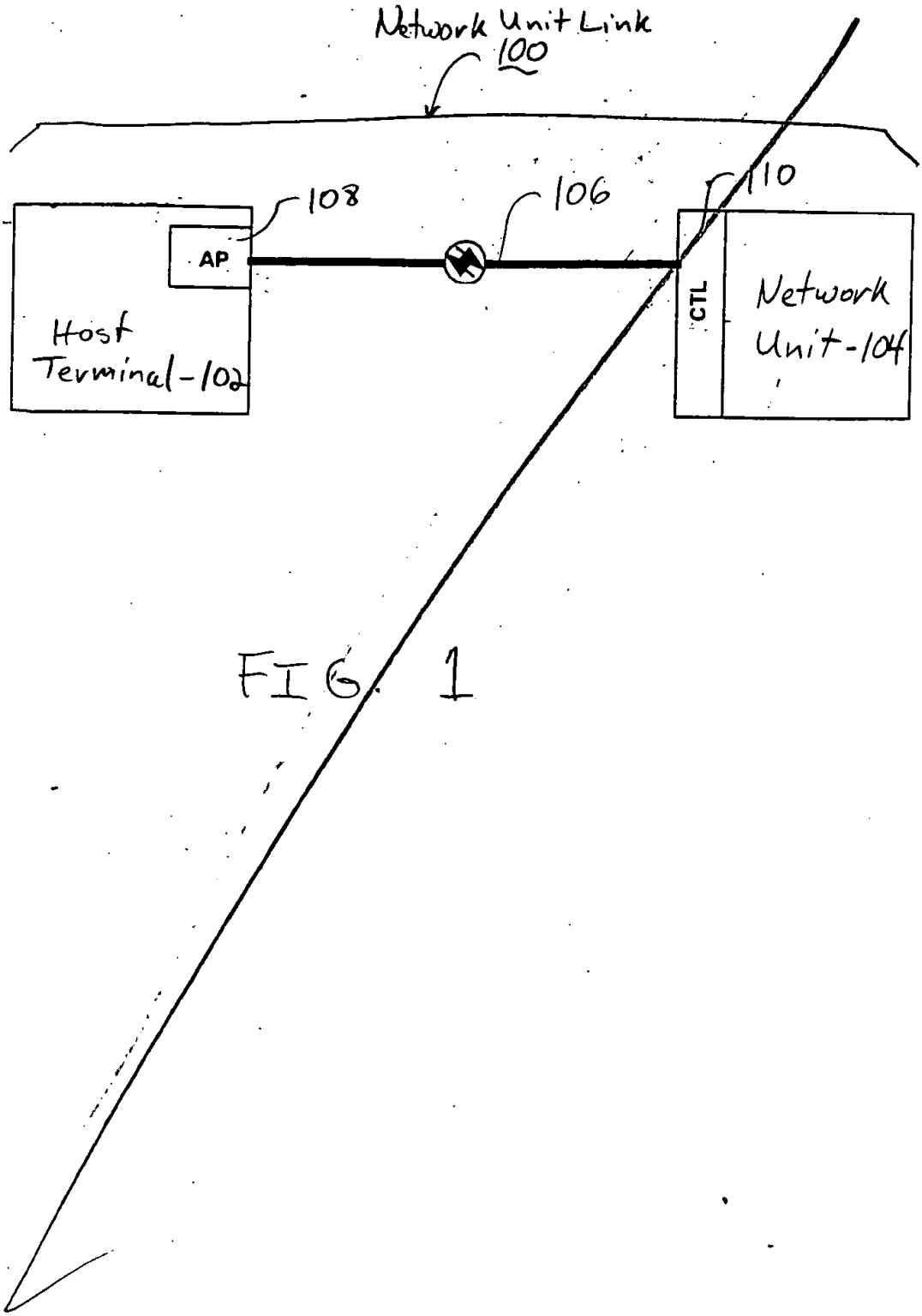
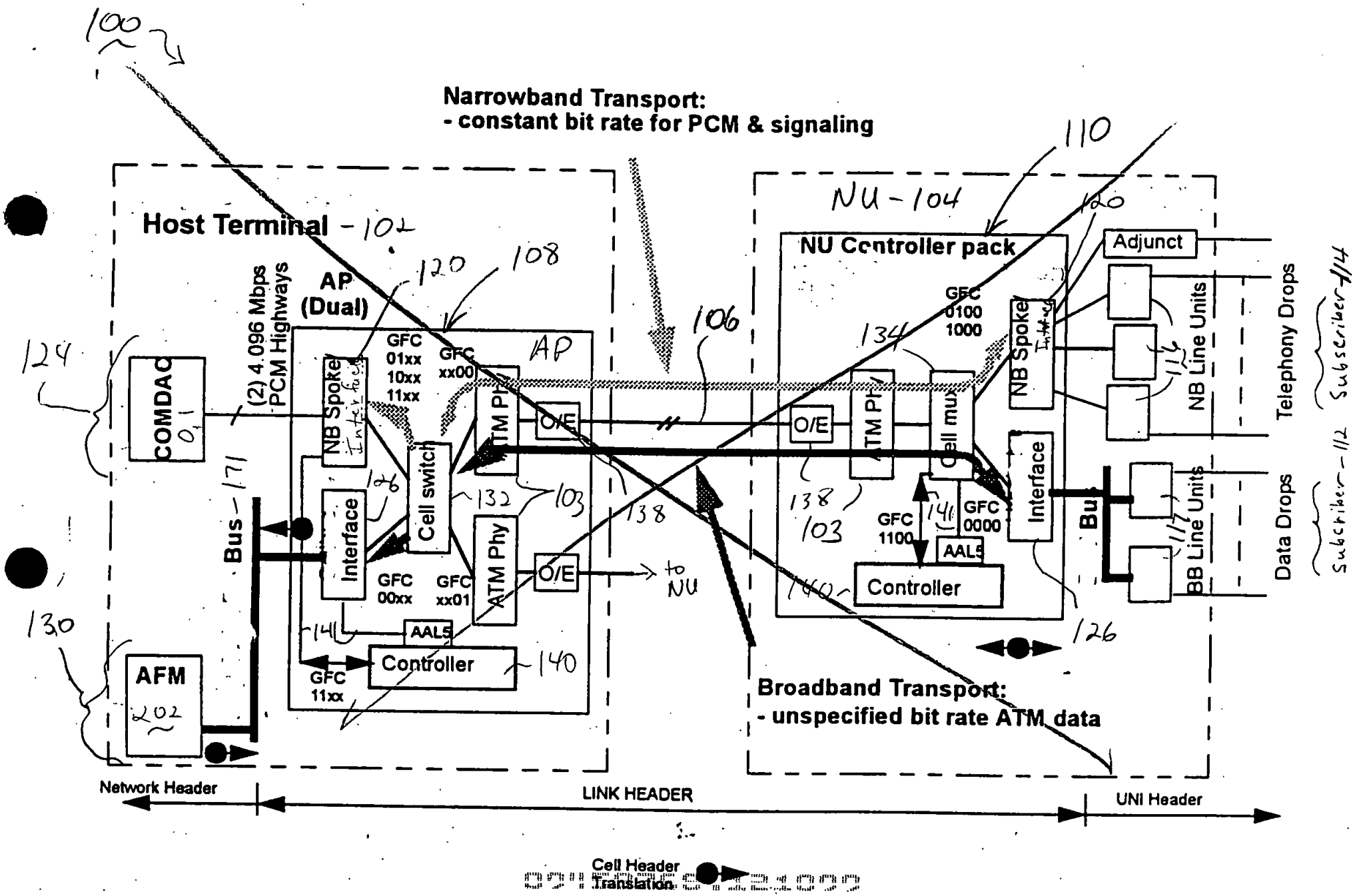

Network Unit Link
100
108
106
110
AP
CTL
Host
Terminal-102
Network
Unit-104

FIG. 1

FIG. 2


100
Narrowband Transport:
- constant bit rate for PCM & signaling
110
Host Terminal - 102
NU - 104
AP
(Dual)
120
108
106
NU Controller pack
Adjunct
GFC
0100
1000
134
124
COMDAC
(2) 4.096 Mbps
PCM Highways
NB Spoke
Interface
GFC
01xx
10xx
11xx
GFC
xx00
ATM Phy
O/E
Cell mux
NB Line Units
Telephony Drops
Subscriber 114
Subscriber 112
Data Drops
BB Line Units
Bus
171
Cell switch
132
103
138
126
Interface
GFC
00xx
GFC
xx01
to NU
GFC
1100
GFC
0000
AAL5
Controller
140
141
160
130
AFM
202
GFC
11xx
Broadband Transport:
- unspecified bit rate ATM data
Network Header
LINK HEADER
UNI Header
Cell Header
Translation

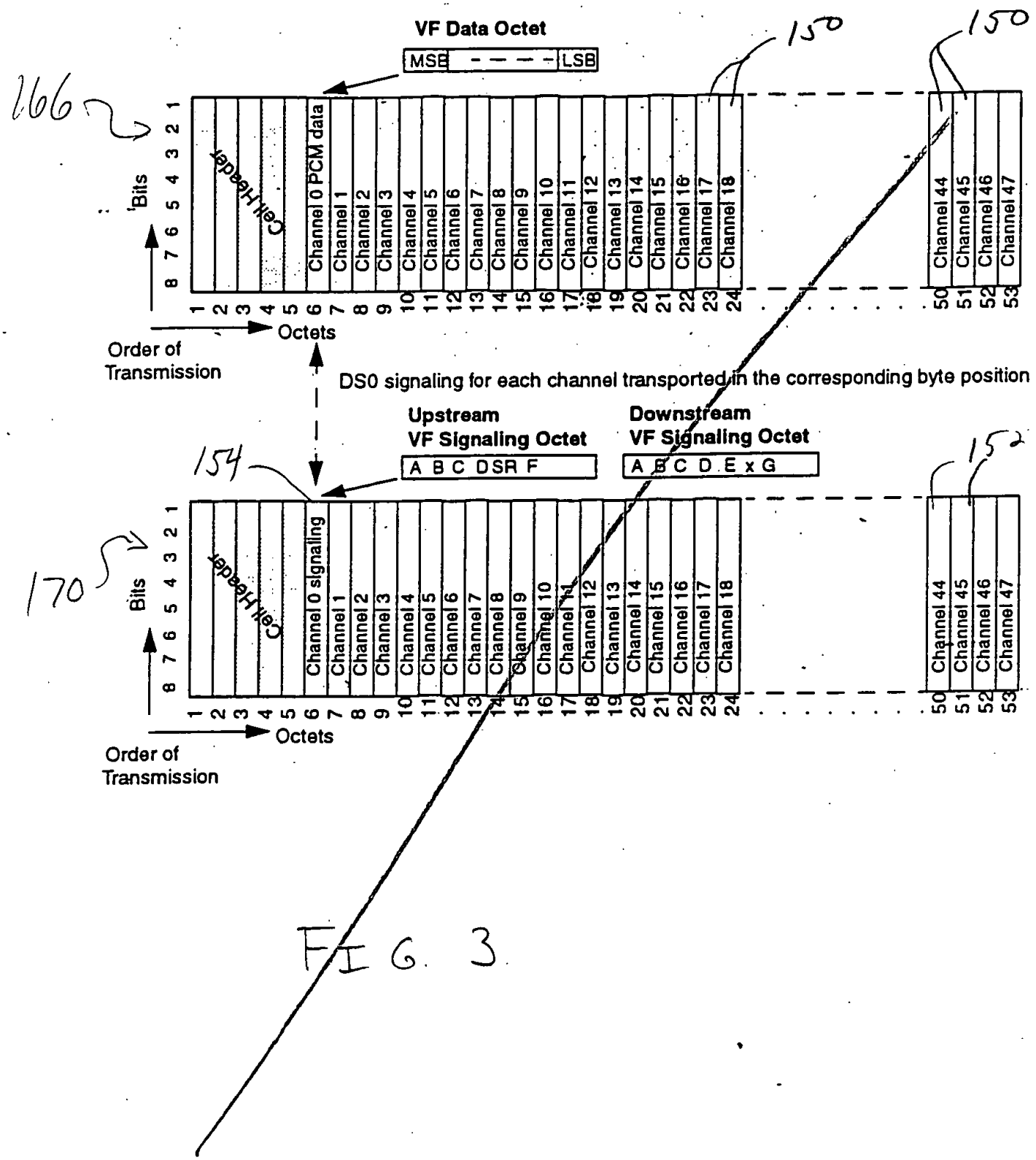

VF Data Octet
MSB
LSB
166
150
150
Bits
8 7 6 5 4 3 2 1
CellHeader
Channel 0 PCM data
Channel 1
Channel 2
Channel 3
Channel 4
Channel 5
Channel 6
Channel 7
Channel 8
Channel 9
Channel 10
Channel 11
Channel 12
Channel 13
Channel 14
Channel 15
Channel 16
Channel 17
Channel 18
Channel 44
Channel 45
Channel 46
Channel 47
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 50 51 52 53
Octets
Order of Transmission
DS0 signaling for each channel transported in the corresponding byte position
Upstream VF Signaling Octet
A B C DSR F
Downstream VF Signaling Octet
A B C D E x G
154
152
170
Channel 0 signaling

FIG. 3

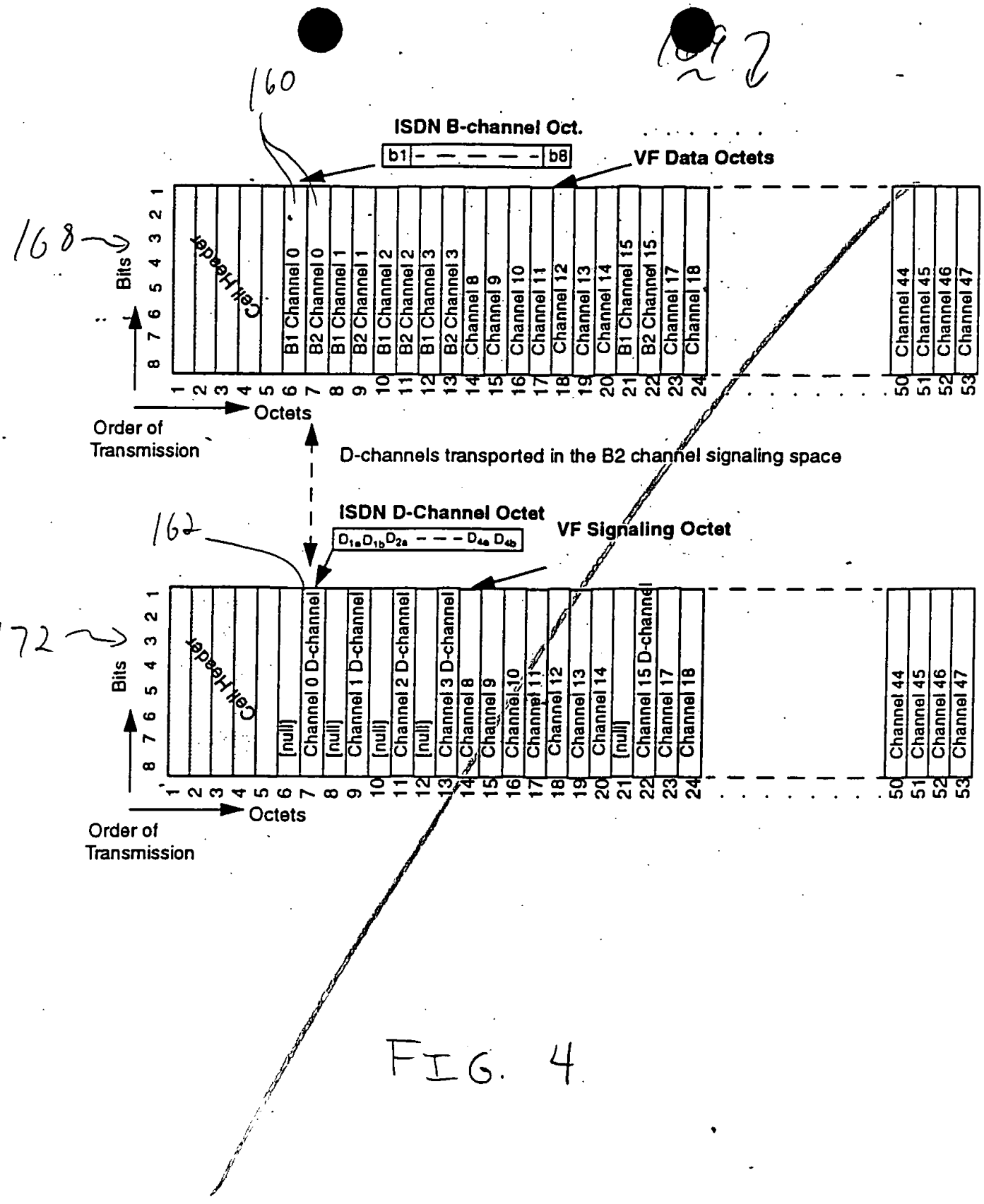

160
ISDN B-channel Oct.
b1
b8
VF Data Octets
168
Bits
Octets
Order of Transmission
Cell Header
B1 Channel 0
B2 Channel 0
B1 Channel 1
B2 Channel 1
B1 Channel 2
B2 Channel 2
B1 Channel 3
B2 Channel 3
Channel 8
Channel 9
Channel 10
Channel 11
Channel 12
Channel 13
Channel 14
B1 Channel 15
B2 Channel 15
Channel 17
Channel 18
Channel 44
Channel 45
Channel 46
Channel 47
D-channels transported in the B2 channel signaling space
ISDN D-Channel Octet
162
VF Signaling Octet
172
[null]
Channel 0 D-channel
Channel 1 D-channel
Channel 2 D-channel
Channel 3 D-channel
Channel 15 D-channel

FIG. 4

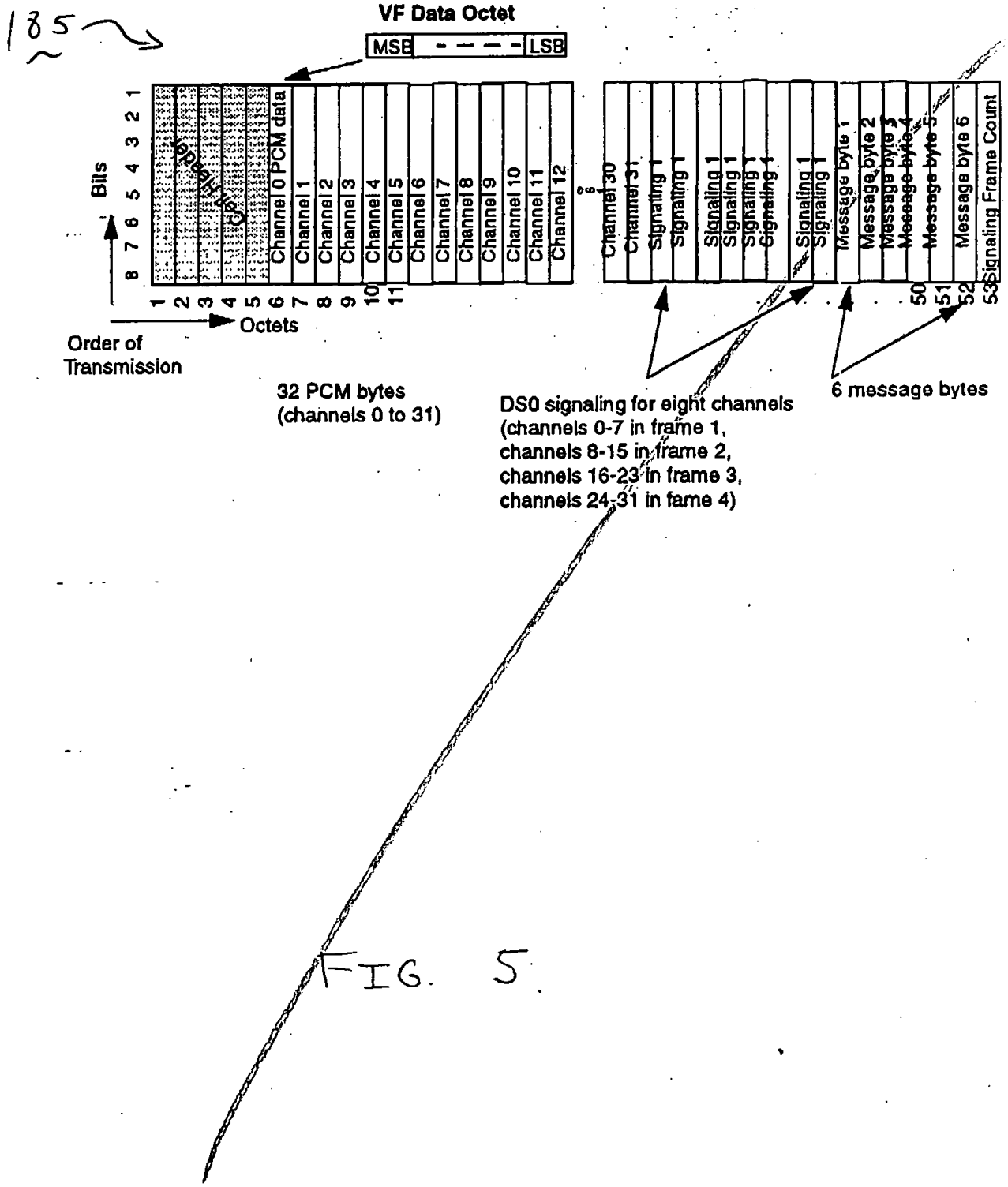

185
VF Data Octet
MSB
LSB
Bits
8 7 6 5 4 3 2 1
Channel 0 PCM data
Channel 1
Channel 2
Channel 3
Channel 4
Channel 5
Channel 6
Channel 7
Channel 8
Channel 9
Channel 10
Channel 11
Channel 12
Channel 30
Channel 31
Signaling 1
Message byte 1
Message byte 2
Message byte 3
Message byte 4
Message byte 5
Message byte 6
Signaling Frame Count
1 2 3 4 5 6 7 8 9 10 11 50 51 52 53
Octets
Order of Transmission
32 PCM bytes (channels 0 to 31)
DS0 signaling for eight channels (channels 0-7 in frame 1, channels 8-15 in frame 2, channels 16-23 in frame 3, channels 24-31 in fame 4)
6 message bytes

FIG. 5

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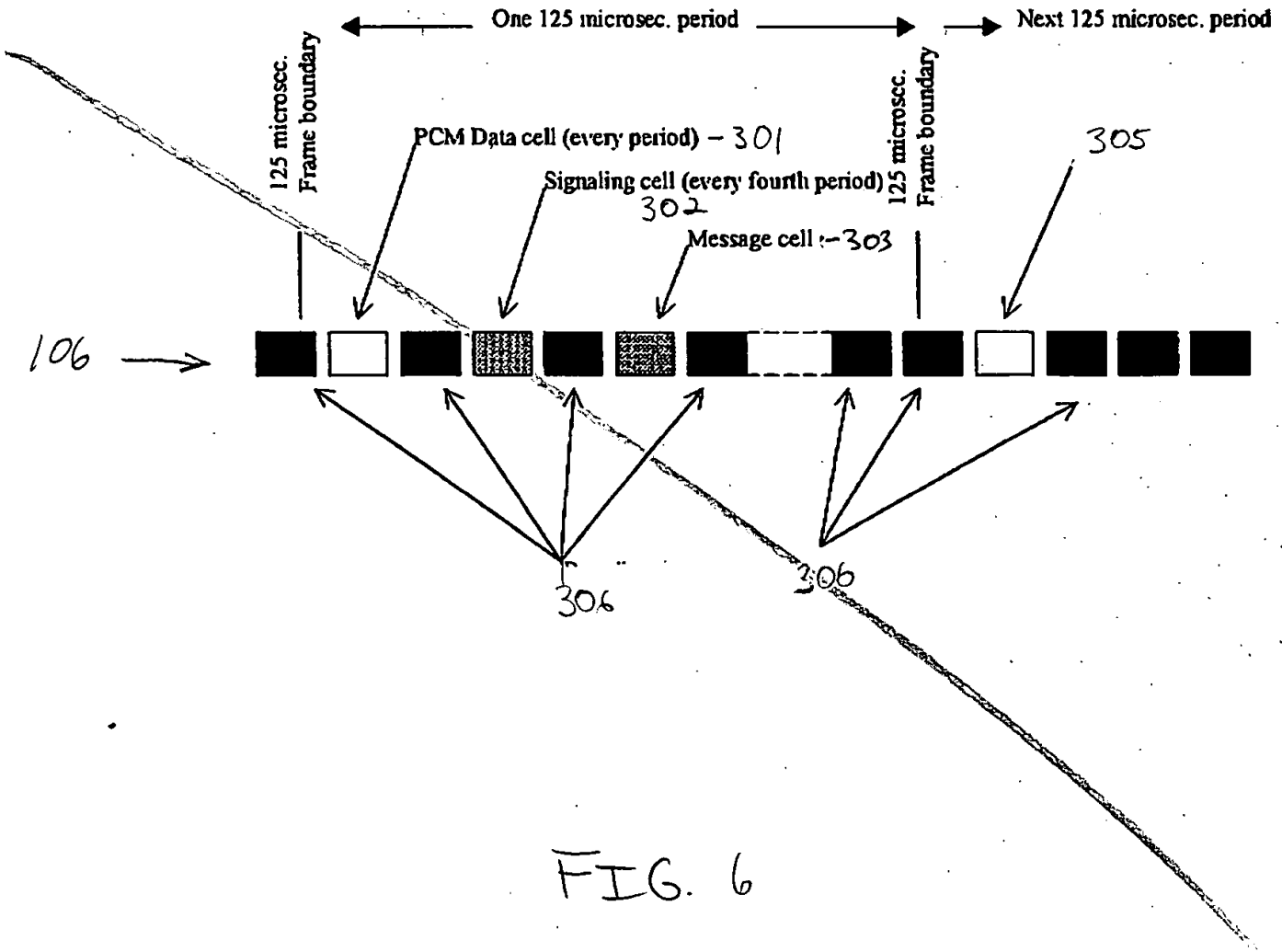

FIG. 6